

Welcome to DialogClassic Web (tm)

Dialog level 05.05.00D
Last logoff: 20jul05 09:51:28
Logon file001 21jul05 09:41:56

*** ANNOUNCEMENT ***

--UPDATED: Important Notice to Freelance Authors--
See HELP FREELANCE for more information

NEW FILES RELEASED

***Aluminium Industry Abstracts (File 33)
***Ceramic Abstracts/World Ceramic Abstracts (File 335)
***CSA Life Sciences Abstracts (File 24)
***Corrosion Abstracts (File 46)
***Materials Business File (File 269)
***Engineered Materials Abstracts (File 293)
***CSA Aerospace & High Technology Database (File 108)
***CSA Technology Research Database (File 23)
***METADEX(r) (File 32)
***FDAnews (File 182)
***German Patents Fulltext (File 324)

RESUMED UPDATING

***Canadian Business and Current Affairs (262)
***CorpTech (559)

*** Chemical Structure Searching now available in Prous Science D
of the Future (F453), IMS R&D Focus (F445), Beilstein Facts (F390),
and Derwent Chemistry Resource (F355).

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HIGHLIGHT set on as '

* * *

File 1:ERIC 1966-2004/Jul 21
(c) format only 2004 The Dialog Corporation
*File 1: Updates suspended by ERIC until
Q3, 2005

Set Items Description

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Cost is in DialUnits

?

B 155, 159, 5, 73
21jul05 09:42:10 User259876 Session D776.1
\$0.80 0.228 DialUnits File1
\$0.80 Estimated cost File1
\$0.05 INTERNET
\$0.85 Estimated cost this search
\$0.85 Estimated total session cost 0.228 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Jul W3
(c) format only 2005 The Dialog Corp.
File 159:Cancerlit 1975-2002/Oct
(c) format only 2002 Dialog Corporation
*File 159: Cancerlit is no longer updating.

Please see HELP NEWS159.
File 5:Biosis Previews(R) 1969-2005/Jul W3
(c) 2005 BIOSIS
File 73:EMBASE 1974-2005/Jul 21
(c) 2005 Elsevier Science B.V.

Set Items Description

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S (MUCOSAL (W) (IMMUNITY OR IMMUNE)) (S) CPG
178923 MUCOSAL
322168 IMMUNITY
2023142 IMMUNE
25263 CPG
S1 69 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) (S) CPG

?

RD

...examined 50 records (50)
...completed examining records
S2 31 RD (unique items)

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S S2 NOT PY>1998
31 S2
10323887 PY>1998
S3 3 S2 NOT PY>1998

?

T S3/3,K/ALL

3/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

12599633 PMID: 10189191

Immunization against hepatitis B virus by mucosal administration of antigen-antibody complexes.

McCluskie M J; Wen Y M; Di Q; Davis H L
Loeb Health Research Institute, Ottawa, Canada.
Viral immunology (UNITED STATES) 1998, 11 (4) p245-52, ISSN
0882-8245 Journal Code: 8801552
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... were predominantly of the IgG1 isotype (Th2-like). In contrast, anti-HBs induced by HBsAg/Ab plus cholera toxin (CT) or oligodeoxynucleotides (ODN) containing immunostimulatory CpG motifs (CpG) (1 microg each) were predominantly IgG2a (Th1-like). Results from this study indicate that HBsAg/Ab complexes can induce strong humoral immune responses when delivered...

3/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

12481550 PMID: 9794366

CpG DNA is a potent enhancer of systemic and mucosal immune responses against hepatitis B surface antigen with intranasal administration to mice.

McCluskie M J; Davis H L

Loeb Research Institute, Department of Cellular and Molecular Medicine, Faculty of Medicine, University of Ottawa, Canada.

Journal of immunology (Baltimore, Md. - 1950) (UNITED STATES) Nov 1 1998, 161 (9) p4463-6, ISSN 0022-1767 Journal Code: 2985117R

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

CpG DNA is a potent enhancer of systemic and mucosal immune responses against hepatitis B surface antigen with intranasal administration to mice.

... vaccines unless such vaccines are administered with a mucosal adjuvant such as cholera toxin (CT); however, CT is toxic in humans. Synthetic oligodeoxynucleotides containing immunostimulatory CpG motifs (CpG) are potent adjuvants for the induction of Th1-like systemic immune responses against parenterally delivered proteins. Here, we show in mice that intranasal delivery of hepatitis B surface Ag, which alone has no effect, elicits good immune responses when given with CpG oligodeoxynucleotides and/or CT. Overall, CpG is superior to CT for the induction of humoral and cell-mediated systemic immunity as well as mucosal immune responses (IgA) at local (lung) and distant (feces) sites. Furthermore, CpG and CT act synergistically, giving stronger responses than those observed with 10 times more of either adjuvant alone. Ab isotypes were predominantly IgG1 (Th2-like) with CT, mixed IgG1/IgG2a (Th0) with CpG , and predominantly IgG2a (Th1-like) with CpG and CT together.

3/3,K/3 (Item 1 from file: 73)

DIALOG(R) File 73:EMBASE

(c) 2005 Elsevier Science B.V. All rts. reserv.

07454754 EMBASE No: 1998363958

Cutting edge: CpG DNA is a potent enhancer of systemic and mucosal immune responses against hepatitis B surface antigen with intranasal administration to mice

McCluskie M.J.; Davis H.L.

Dr. H.L. Davis, Loeb Research Institute, 725 Parkdale Avenue, Ottawa, Ont. K1Y 4E9 Canada

AUTHOR EMAIL: hdavis@LRI.ca

Journal of Immunology (J. IMMUNOL.) (United States) 01 NOV 1998, 161/9 (4463-4466)

CODEN: JOIMA ISSN: 0022-1767

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 32

Cutting edge: CpG DNA is a potent enhancer of systemic and mucosal immune responses against hepatitis B surface antigen with intranasal administration to mice

Mucosal immunity is difficult to induce with subunit vaccines unless such vaccines are administered with a mucosal adjuvant such as cholera toxin (CT); however, CT is toxic in humans. Synthetic oligodeoxynucleotides containing immunostimulatory CpG motifs (CpG) are potent adjuvants for

the induction of Th1-like systemic immune responses against parenterally delivered proteins. Here, we show in mice that intranasal delivery of hepatitis B surface Ag, which alone has no effect, elicits good immune responses when given with **CpG** oligodeoxynucleotides and/or CT. Overall,

CpG is superior to CT for the induction of humoral and cell-mediated systemic immunity as well as **mucosal immune** responses (IgA) at local (lung) and distant (feces) sites. Furthermore, **CpG** and CT act synergistically, giving stronger responses than those observed with 10 times more of either adjuvant alone. Ab isotypes were predominantly IgG1 (Th2-like) with CT, mixed IgG1/IgG2a (Th0) with **CpG**, and predominantly IgG2a (Th1-like) with **CpG** and CT together.

?

Set	Items	Description
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S2	31	RD (unique items)
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178923 MUCOSAL
322168 IMMUNITY
2023142 IMMUNE
10604 MUCOSAL(W) (IMMUNITY OR IMMUNE)
25263 CPG
S4 119 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG

?

S S4 NOT PY>1998
119 S4
10323887 PY>1998
S5 6 S4 NOT PY>1998

?

RD
...completed examining records
S6 4 RD (unique items)

?

Set	Items	Description
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S2	31	RD (unique items)
S3	3	S2 NOT PY>1998
S4	119	(MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG
S5	6	S4 NOT PY>1998
S6	4	RD (unique items)

?

S S6 NOT S3
4 S6
3 S3
S7 1 S6 NOT S3

?

T S7/3,K/ALL

7/3,K/1 (Item 1 from file: 5)
 DIALOG(R) File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0011569893 BIOSIS NO.: 199800364140

CpG DNA, a novel immune enhancer for systemic and mucosal immunization with influenza virus

AUTHOR: Moldoveanu Zina (Reprint); Love-Homan Laurie; Huang Wen Qiang; Krieg Arthur M (Reprint)

AUTHOR ADDRESS: Veterans Adm. Med. Cent., Iowa City, IA 52246, USA**USA

JOURNAL: Vaccine 16 (11-12): p1216-1224 July, 1998 1998

MEDIUM: print

ISSN: 0264-410X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

CpG DNA, a novel immune enhancer for systemic and mucosal immunization with influenza virus

ABSTRACT: Bacterial DNA causes B cell proliferation, immunoglobulin secretion, and Th1-like cytokine secretion, due to unmethylated **CpG** dinucleotides in particular base contexts (**CpG** motifs), which are far more common in bacterial DNA than in vertebrate DNA. Synthetic oligodeoxynucleotides (ODN) containing **CpG** motifs also trigger immune activation, suggesting possible utility as vaccine enhancers. Mice systemically primed with formalin-inactivated influenza virus mixed with **CpG** ODN, generated virus specific serum antibodies at titres approximately seven times higher than mice immunized without **CpG** ; the titres were further increased following an identical second injection. To determine whether **CpG** could be absorbed through mucosae and enhance vaccination responses, mice were immunized intranasally (IN) with the same preparation of virus with or without **CpG** ODN or Escherichia coli DNA. Following IN immunization, **CpG** ODN or E. coli DNA promoted increased production of influenza-specific antibodies in serum, saliva and the genital tract, compared with the control groups. These studies indicate that stimulatory **CpG** ODN are promising new immune enhancers for vaccination applications.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: **CpG** DNA...

... **CpG** ODN

MISCELLANEOUS TERMS: **mucosal immune response...**

?

S (ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION

1333094 ORAL

2105 INTRARECTAL

37411 INTRANASAL

215001 IMMUNIZATION

S8 4524 (ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION

?

S S8 (S) ADJUVANT

4524 S8

196090 ADJUVANT

S9 737 S8 (S) ADJUVANT

?

S S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))

737 S9

1 MUCOASAL

322168 IMMUNITY
2023142 IMMUNE
0 MUCOASAL (W) (IMMUNITY OR IMMUNE)
S10 0 S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))
?

Set Items Description
S1 69 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) (S) CPG
S2 31 RD (unique items)
S3 3 S2 NOT PY>1998
S4 119 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG
S5 6 S4 NOT PY>1998
S6 4 RD (unique items)
S7 1 S6 NOT S3
S8 4524 (ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION
S9 737 S8 (S) ADJUVANT
S10 0 S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))
?

S S9 AND CPG
737 S9
25263 CPG
S11 18 S9 AND CPG
?

S S11 NOT PY>1998
18 S11
10323887 PY>1998
S12 0 S11 NOT PY>1998
?

Set Items Description
S1 69 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) (S) CPG
S2 31 RD (unique items)
S3 3 S2 NOT PY>1998
S4 119 (MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG
S5 6 S4 NOT PY>1998
S6 4 RD (unique items)
S7 1 S6 NOT S3
S8 4524 (ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION
S9 737 S8 (S) ADJUVANT
S10 0 S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))
S11 18 S9 AND CPG
S12 0 S11 NOT PY>1998
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RD S11
...completed examining records
S13 6 RD S11 (unique items)
?

T S13/3, K/ALL

13/3, K/1 (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

18099504 PMID: 15758079

Orally administered OVA/ CpG -ODN induces specific mucosal and systemic immune response in young and aged mice.

Alignani Diego; Maletto Belkys; Liscovsky Miriam; Ropolo Andrea; Moron Gabriel; Pistoresi-Palencia Maria C

Departamento de Bioquimica Clinica, CIBICI (CONICET), Facultad de Ciencias Quimicas, Universidad Nacional de Cordoba, Argentina.

Journal of leukocyte biology (United States) Jun 2005, 77 (6) p898-905, ISSN 0741-5400 Journal Code: 8405628

Publishing Model Print-Electronic

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

Orally administered OVA/ CpG -ODN induces specific mucosal and systemic immune response in young and aged mice.

We have previously demonstrated that subcutaneously administered ovalbumin (OVA) plus synthetic oligodeoxynucleotides containing immunostimulatory **CpG** motifs (**CpG** -ODN) as adjuvant stimulate cellular and humoral immunity and promote T helper cell type 1 differentiation in aged mice. The present study assessed the ability of **CpG** -ODN to induce an OVA-specific immune response after **oral immunization** in young (3-month-old) and aged (18-month-old) BALB/c mice. Oral OVA/ **CpG** -ODN immunization induces a similar OVA-specific T cell-proliferative response (in mucosal and systemic tissues), immunoglobulin G (IgG) in plasma, and IgA in intestinal...

... OVA-specific humoral immune response observed in aged mice was similar to the one observed in young mice, peaking at day 7 after the last **oral immunization** and was present over 40 days after the last **oral immunization**. The pattern of cytokines released in culture supernatants in both groups of mice was similar, with specific interferon-gamma secretion in the absence of interleukin-5 responses. These results provide evidence that orally administered OVA/ **CpG** -ODN induces a young-like, specific, immune response against OVA in aged mice, showing that **CpG** -ODN might be used as a mucosal **adjuvant** during aging.

13/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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17746450 PMID: 15734046

Mucosal adjuvants:

Freytag L C; Clements J D

Department of Microbiology and Immunology, Tulane University Health Sciences Center, New Orleans, LA 70112, USA.

Vaccine (Netherlands) Mar 7 2005, 23 (15) p1804-13, ISSN 0264-410X
Journal Code: 8406899

Publishing Model Print

Document type: Journal Article; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... potential to function as mucosal adjuvants are the ADP-ribosylating enterotoxins (cholera toxin and the heat-labile enterotoxin of *Escherichia coli*), synthetic oligodeoxynucleotides containing unmethylated **CpG** dinucleotides (**CpG** ODN), and monophosphoryl lipid A (MPL). The mechanism of adjuvanticity of the ADP-ribosylating enterotoxins is the subject of

considerable debate. Our own view is that adjuvanticity is an outcome and not an event. It is likely that these molecules exert their **adjuvant** function by interacting with a variety of cell types, including epithelial cells, dendritic cells, macrophages, and possibly B- and T-lymphocytes. The **adjuvant** activities of **CpG** and MPL are due to several different effects they have on innate and adaptive immune responses and both MPL and **CpG** act through MyD88-dependent and -independent pathways. This presentation will summarize the probable mechanisms of action of these diverse mucosal adjuvants and discuss potential synergy...

Chemical Name: Adjuvants, Immunologic; **CpG** -oligonucleotide; Enterotoxins; Lipid A; Oligodeoxyribonucleotides; monophosphoryl lipid A; Adenosine Diphosphate Ribose

13/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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17455400 PMID: 15603894

Intranasal immunization with inactivated SARS-CoV (SARS-associated coronavirus) induced local and serum antibodies in mice.

Qu Di; Zheng Bojian; Yao Xin; Guan Yi; Yuan Zheng-Hong; Zhong Nan-Shan; Lu Li-Wei; Xie Jian-Ping; Wen Yu-Mei

Key Laboratory of Medical Molecular Virology/Ministry of Education, Ministry of Public Health, Shanghai Medical College, Fudan University, Shanghai 200032, PR China.

Vaccine (Netherlands) Jan 4 2005, 23 (7) p924-31, ISSN 0264-410X

Journal Code: 8406899

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... 6) to 10(4.6) times. Inactivated GZ50 was used to immunize mice intranasally either alone, or after precipitation with polyethylene glycol (PEG), or with **CpG**, or CTB as an adjuvant. The titer of serum neutralizing antibodies was up to 1:640. In mice immunized with adjuvants or PEG precipitated GZ50...

... immunofluorescence. Though serum antibodies were detected, no anti-SARS-IgA could be detected in mice immunized only with inactivated GZ50. The roles of adjuvants in **intranasal immunization** with inactivated SARS-CoV is discussed.

13/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

15460563 PMID: 15331695

Intranasal immunization with inactivated influenza virus enhances immune responses to coadministered simian-human immunodeficiency virus-like particle antigens.

Kang Sang-Moo; Guo Lizheng; Yao Qizhi; Skountzou Ioanna; Compans Richard W

Department of Microbiology and Immunology, Emory University School of Medicine, 1510 Clifton Rd., Atlanta, GA 30322, USA.

Journal of virology (United States) Sep 2004, 78 (18) p9624-32, ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: AI057017-01; AI; NIAID; AI28147; AI; NIAID; AI30042;

AI; NIAID
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... T-lymphocyte activities. The levels of enhancement of immune response by coimmunization with inactivated influenza virus were equivalent to those induced by inclusion of immunostimulatory **CpG** oligodeoxynucleotides (**CpG** DNA). We also observed that SHIV VLPs bind to influenza virus virions, forming mixed aggregates. These results indicate that inactivated influenza virus can play a role as a mucosal **adjuvant** to coadministered antigens.
Copyright 2004 American Society for Microbiology

13/3,K/5 (Item 5 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
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13621116 PMID: 11207303
Intranasal immunization with CpG oligodeoxynucleotides as an adjuvant dramatically increases IgA and protection against herpes simplex virus-2 in the genital tract.

Gallichan W S; Woolstencroft R N; Guarasci T; McCluskie M J; Davis H L; Rosenthal K L

Centre for Gene Therapeutics, McMaster University, Hamilton, Ontario, Canada.

Journal of immunology (Baltimore, Md. - 1950) (United States) Mar 1 2001, 166 (5) p3451-7, ISSN 0022-1767 Journal Code: 2985117R

Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Intranasal immunization with CpG oligodeoxynucleotides as an adjuvant dramatically increases IgA and protection against herpes simplex virus-2 in the genital tract.

... HIV, will likely be dependent on the induction of potent long-lasting mucosal immune responses in the genital tract. Recently, synthetic oligodeoxynucleotides (ODN) containing immunostimulatory **CpG** motifs were shown to serve as potent adjuvants for the induction of mucosal immune responses. Here, we show that intranasal immunization with **CpG** ODN, plus recombinant glycoprotein B (rgB) of HSV-1, results in significantly elevated levels of specific anti-gB IgA Abs in vaginal washes that remained

... in the genital tract in response to intravaginal (IVAG) HSV-2 challenge. HSV-2-specific CTL were observed at moderate levels in the spleens of **CpG** or non- **CpG** ODN-immunized mice. In contrast, strong CTL responses were observed locally in the genital tissues of both groups following IVAG HSV-2 challenge. Interestingly, mice immunized intranasally with rgB plus **CpG** ODN, but not non- **CpG** ODN, were significantly protected following IVAG HSV-2 challenge. Measurement of virus in protected **CpG** -immunized mice revealed a log lower level of replication within the first few days after infection. In conclusion, these results indicate that intranasal immunization with **CpG** ODN plus protein mediates immunity in the female genital tract capable of protecting against a sexually transmitted pathogen.

Descriptors: *Adjuvants, Immunologic--administration and dosage--AD; *CpG Islands--immunology--IM; *Herpes Genitalis--immunology--IM; *Herpes Genitalis--prevention and control--PC; *Herpes Simplex Virus Vaccines--administration and dosage--AD; *Herpesvirus 2, Human--immunology...

Chemical Name: Adjuvants, Immunologic; Antibodies, Viral; CPG-oligonucleotide; Herpes Simplex Virus Vaccines; Immunoglobulin A; Immunoglobulin G; Immunoglobulin Isotypes; Oligodeoxyribonucleotides; Recombinant Proteins; Viral Envelope Proteins; glycoprotein B, type 1 herpes simplex virus

13/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

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12994266 PMID: 10948106

Antipeptide antibody responses following intranasal immunization: effectiveness of mucosal adjuvants.

Olszewska W; Partidos C D; Steward M W

The Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, WC1E 7HT, United Kingdom.

Infection and immunity (UNITED STATES) Sep 2000, 68 (9) p4923-9,
ISSN 0019-9567 Journal Code: 0246127

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... of potent adjuvants for human mucosally delivered vaccines. Novel adjuvant formulations have recently become available, and in the present study two have been used for **intranasal immunization** with a synthetic peptide immunogen (MAP-M2). This peptide represents a multiple antigenic peptide containing multiple copies of a mimotope M2, a peptide mimic of a conformational epitope of the fusion protein of measles virus. MAP-M2 was administered intranasally to experimental animals together with synthetic oligodeoxynucleotides containing unmethylated **CpG** motifs with or without a mutant of wild-type enterotoxin of *Escherichia coli* (LT^R72). The combination of the mutant toxin LT^R72 and the **CpG** repeats, codelivered with a peptide immunogen, induced both local and systemic peptide- and pathogen-specific humoral and cellular immune responses comparable to those obtained after **intranasal immunization** with the wild-type toxin LT. In addition, this combination of adjuvants induced a predominantly immunoglobulin G2a antibody response. If both the LT^R72 and **CpG** adjuvants are shown to be safe for use in humans, this particular combination would appear to have potential as an **adjuvant** for mucosally delivered vaccines in humans.

?

Set	Items	Description
S1	69	(MUCOSAL (W) (IMMUNITY OR IMMUNE)) (S) CPG
S2	31	RD (unique items)
S3	3	S2 NOT PY>1998
S4	119	(MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG
S5	6	S4 NOT PY>1998
S6	4	RD (unique items)
S7	1	S6 NOT S3
S8	4524	(ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION
S9	737	S8 (S) ADJUVANT

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S10      0  S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))
S11      18 S9 AND CPG
S12      0  S11 NOT PY>1998
S13      6  RD S11 (unique items)
?

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S S8 AND CPG
    4524  S8
    25263 CPG
S14      44 S8 AND CPG
?

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S S14 NOT PY>1998
    44  S14
    10323887 PY>1998
S15      0  S14 NOT PY>1998
?

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Set	Items	Description
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S2	31	RD (unique items)
S3	3	S2 NOT PY>1998
S4	119	(MUCOSAL (W) (IMMUNITY OR IMMUNE)) AND CPG
S5	6	S4 NOT PY>1998
S6	4	RD (unique items)
S7	1	S6 NOT S3
S8	4524	(ORAL OR INTRARECTAL OR INTRANASAL) (W) IMMUNIZATION
S9	737	S8 (S) ADJUVANT
S10	0	S9 AND (MUCOASAL (W) (IMMUNITY OR IMMUNE))
S11	18	S9 AND CPG
S12	0	S11 NOT PY>1998
S13	6	RD S11 (unique items)
S14	44	S8 AND CPG
S15	0	S14 NOT PY>1998

?

COST

```

21jul05 09:50:19 User259876 Session D776.2
    $4.07    1.198 DialUnits File155
        $1.68  8 Type(s) in Format  3
        $1.68  8 Types
$5.75  Estimated cost File155
    $0.57    0.182 DialUnits File159
$0.57  Estimated cost File159
    $7.77    1.317 DialUnits File5
        $0.16  1 Type(s) in Format 95 (KWIC)
        $0.16  1 Types
$7.93  Estimated cost File5
    $11.87   1.117 DialUnits File73
        $2.94  1 Type(s) in Format  3
        $2.94  1 Types
$14.81 Estimated cost File73
    OneSearch, 4 files,  3.814 DialUnits FileOS
    $2.40  INTERNET
$31.46 Estimated cost this search
$32.31 Estimated total session cost  4.043 DialUnits
?

```

[Return to logon page!](#)